

IN RE: PETITION FOR SPECIAL EXCEPTION  
S/S Private Road, 383.20' W  
of end of asphalt drive, 3780'  
SE of the c/l of Shepherd Road  
10th Election District  
3rd Councilmanic District  
Raymond J. Marocco, et ux  
Petitioners

\* BEFORE THE  
\* DEPUTY ZONING COMMISSIONER  
\* OF BALTIMORE COUNTY  
\* Case No. 89-155-X

#### FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Petitioners herein request a special exception to use the subject property for a regenerator station, a small prefabricated hut, 12.75' x 26', containing telecommunications cable lines, wires, and related equipment, together with adjoining cross drains, as more particularly described in Petitioner's Exhibit 1.

American Telephone and Telegraph Company, Contract Purchaser, by Dan Kennedy, Manager, Right-of-Way, appeared, testified, and was represented by Andrew R. Simon, Esquire. There were no Protestants.

Testimony indicated that the subject property, consisting of 63.36 acres, plus or minus, and zoned R.C. 2, is the site of an existing right-of-way easement for AT & T. Presently, there exists both a cable running across the property as well as an MCI tower, which were granted in previous Case No. 83-165-XA and Case No. 84-94-SPX.

Testimony indicated that the Contract Purchaser proposes constructing a regenerator station at the location shown on Petitioner's Exhibit 1, as they are in the process of placing a new fiberoptic route from New York to Washington. This process requires a regenerator station approximately every 25 miles. AT & T chose this location due to the existing easement and MCI tower. Further, Mr. Kennedy testified the Contract Purchaser chose the subject site as it could meet the requirements of

Section 502.1 of the zoning regulations and have the least adverse impact on the surrounding community.

Testimony indicated that the proposed building will meet all County Building and Fire Code requirements. The regenerator station proposed will not be manned. Contact with the building is limited and estimated to be once a month.

It is clear that the B.C.Z.R. permits the use proposed in a R.C.2 zone by special exception. It is equally clear that the proposed use would not be detrimental to the primary uses in the vicinity. Therefore, it must be determined if the conditions as delineated in Section 502.1 are satisfied.

The Petitioner had the burden of adducing testimony and evidence which would show that the proposed use met the prescribed standards and requirements set forth in Section 502.1 of the B.C.Z.R. The Petitioner has shown that the proposed use would be conducted without real detriment to the neighborhood and would not adversely affect the public interest. The facts and circumstances do not show that the proposed use at the particular location described by Petitioner's Exhibit 1 would have any adverse impact above and beyond that inherently associated with such a special exception use, irrespective of its location within the zone. Schultz v. Pritts, 432 A.2d 1319 (1981).

The proposed use will not be detrimental to the health, safety, or general welfare of the locality, nor tend to create congestion in roads, streets, or alleys therein, nor be inconsistent with the purposes of the property's zoning classification, nor in any other way be inconsistent with the spirit and intent of the B.C.Z.R.

After reviewing all of the testimony and evidence presented, it appears that the special exception should be granted with certain restrictions as more fully described below.

Pursuant to the advertisement, posting of the property, and public hearing on this Petition held, and for the reasons given above, the relief requested in the special exception should be granted.

THEREFORE, IT IS ORDERED by the Deputy Zoning Commissioner for Baltimore County this 6th day of December, 1988 that the Petition for Special Exception to permit the use of the subject property for a regenerator station, a small prefabricated hut, 12.75' x 26', containing telecommunications cable lines, wires, and related equipment, together with adjoining cross drains, in accordance with Petitioner's Exhibit 1, be and is hereby GRANTED, subject, however, to the following restriction:

- 1) The Petitioners may apply for their building permit and be granted same upon receipt of this Order; however, Petitioners are hereby made aware that proceeding at this time is at their own risk until such time as the 30-day appellate process from this Order has expired. If, for whatever reason, this Order is reversed, the Petitioners would be required to return, and be responsible for returning, said property to its original condition.

*A. M. NASTAROWICZ*  
ANN M. NASTAROWICZ  
Deputy Zoning Commissioner  
for Baltimore County

AMN:bjs

Baltimore County  
Zoning Commissioner  
Office of Planning & Zoning  
Towson, Maryland 21204  
XXXXXX 887-3353  
J. Robert Haines  
Zoning Commissioner

December 6, 1988



Dennis F. Rasmussen  
County Executive

Andrew R. Simon, Esquire  
110 N. Washington Street, 5th Floor  
Rockville, Maryland 20850

RE: PETITION FOR SPECIAL EXCEPTION  
S/S Private Road, 383.20' W  
of end of asphalt drive, 3780'  
SE of the c/l of Shepherd Road  
10th Election District - 3rd Councilmanic District  
Raymond J. Marocco, et ux - Petitioners  
Case No. 89-155-X

Dear Mr. Simon:

Enclosed please find a copy of the decision rendered in the above-captioned matter. The Petition for Special Exception has been granted in accordance with the attached Order.

In the event any party finds the decision rendered is unfavorable, any party may file an appeal to the County Board of Appeals within thirty (30) days of the date of this Order. For further information on filing an appeal, please contact Ms. Charlotte Radcliffe at 494-3391.

Very truly yours,

*A. M. NASTAROWICZ*

ANN M. NASTAROWICZ  
Deputy Zoning Commissioner  
for Baltimore County

AMN:bjs

cc: People's Counsel

File

#### PETITION FOR SPECIAL EXCEPTION

TO THE ZONING COMMISSIONER OF BALTIMORE COUNTY:

The undersigned, legal owner(s) of the property situate in Baltimore County and which is described in the description and plat attached hereto and made a part hereof, hereby petition for a Special Exception under the Zoning Law and Zoning Regulations of Baltimore County, to use the herein described property for the construction and use of a regenerator station, a small (12.75' x 26') prefabricated hut containing telecommunications cable lines, wires, and related equipment, together with adjoining cross drains.

Property is to be posted and advertised as prescribed by Zoning Regulations.

I, or we, agree to pay expenses of above Special Exception advertising, posting, etc., upon filing of this petition, and further agree to and are to be bound by the zoning regulations and restrictions of Baltimore County adopted pursuant to the Zoning Law for Baltimore County.

I/We do solemnly declare and affirm, under the penalties of perjury, that I/we are the legal owner(s) of the property which is the subject of this Petition.

Contract Purchaser:  
American Telephone and Telegraph Company  
of Baltimore, City  
(Type or Print Name)  
*Dan Kennedy*  
Signature Dan Kennedy, Mgr. Right of Way  
Address  
3033 Chain Bridge Road  
Oakton, Virginia 22185  
City and State

Legal Owner(s):  
Raymond J. Marocco  
(Type or Print Name)  
*Raymond J. Marocco*  
Signature  
P.O. J. Marocco  
(Type or Print Name)  
*P.O. J. Marocco*  
Signature

Attorney for Petitioner:  
Andrew R. Simon  
(Type or Print Name)  
*A. R. Simon*  
Signature  
Address  
5th Fl., 110 N. Washington Street  
Rockville, Maryland 20850  
City and State  
Attorney's Telephone No.: (301) 251-6010

Name, address and phone number of legal owner, contract purchaser or representative to be contacted  
John D. A. Hogan, III  
Name/Right of Way Agent  
5252 Cherokee Avenue, Alexandria, Virginia  
Address  
(703) 642-3855

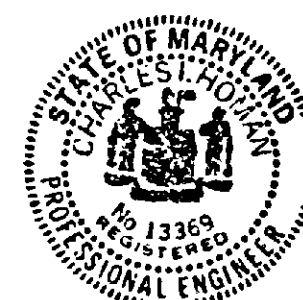
ORDERED By The Zoning Commissioner of Baltimore County, this 7th day of September, 1988, that the subject matter of this petition be advertised, as required by the Zoning Law of Baltimore County, in two newspapers of general circulation throughout Baltimore County, that property be posted, and that the public hearing be had before the Zoning Commissioner of Baltimore County in Room 106, County Office Building in Towson, Baltimore County, on the 25th day of October, 1988, at 9 o'clock A.M.

*J. Robert Haines*  
Zoning Commissioner of Baltimore County.

#### EXHIBIT "C" AT&T REGENERATION SITE PTSS

BEGINNING at a point in the center of the intersection of Troyer Road and Shepherd Road in the Tenth Election District, Baltimore County, Maryland; thence proceeding in a northwesterly direction along the center of Troyer Road/S.R. 138 a distance of 3,780 feet plus or minus to the point of intersection of a private asphalt drive in lands of Raymond J. Marocco and P.O. Joseph Marocco, recorded in the Land Records of Baltimore County in Liber 3222, Page 516, dated September 3, 1957; thence, along the centerline of the 12-foot private drive and through lands of Marocco, S 64° 22' 18" W, 375.10 feet to a point in the AT&T Right-of-Way; thence, generally along a dirt access road, N 68° 38' 55" W, 383.20 feet to a point; thence, S 66° 54' 29" W, 39.16 feet to a hub on the south edge of the AT&T Right-of-Way, said hub being the northeast corner and the true point of beginning of the parcel herein described; thence, S 16° 41' 08" W, 50.0 feet to a hub, the southeast corner; thence, N 73° 18' 52" W, 50.0 feet to a hub at the southwest corner; thence, N 16° 41' 08" E, 50.0 feet to a hub at the northwest corner on the south edge of the AT&T Right-of-Way; thence, along the South edge of said right-of-way, S 73° 18' 52" E, 50.0 feet to the place of beginning.

CONTAINING 2,500 square feet or 0.06 acres, more or less.



*Charles I. Homan, P.E.*  
Signature  
July 15, 1988  
Date  
13369  
MD License No.

Charles I. Homan, P.E.  
Michael Baker, Jr., Inc.  
4301 Dutch Ridge Road  
Beaver, PA 15009

Baltimore County  
Zoning Commissioner  
Office of Planning & Zoning  
Towson, Maryland 21204  
494-3353

J. Robert Haines  
Zoning Commissioner

Date:

Mr. John D. Hogan, III  
Right of Way Agent  
5252 Cherokee Avenue  
Alexandria, Virginia

Re: Petition for Special Exception  
CASE NUMBER 89-155-X  
S/S Private Road, 383.20' W of end of asphalt drive, 3780' SE c/l Shepherd Road  
10th Election District - 3rd Councilmanic  
Legal Owner(s): Raymond J. Marocco, et ux  
Contract Purchaser(s): American Telephone & Telegraph Company of Baltimore City  
HEARING SCHEDULED: TUESDAY, OCTOBER 25, 1988 at 9:00 a.m.

Dear Mr. Hogan:

Please be advised that 150.43 per is due for advertising and posting of the above-referenced property. All fees must be paid prior to the hearing. Do not remove the sign and post set(s) from the property from the time it is posted by this office until the day of the hearing itself.

THIS FEE MUST BE PAID AND THE ZONING SIGN(S) AND POST(S) RETURNED ON THE DAY OF THE HEARING OR THE ORDER SHALL NOT BE ISSUED.

Please make your check payable to Baltimore County, Maryland and bring it along with the sign(s) and post(s) to the Zoning Office, County Office Building, Room 111, Towson, Maryland and 21204 fifteen (15) minutes before your hearing is scheduled to begin.

Please note that should you fail to return the sign and post set(s), there will be an additional \$25.00 added to the above fee for each set not returned.

Very truly yours,

*J. Robert Haines*  
J. ROBERT HAINES  
Zoning Commissioner of  
Baltimore County

JRH:gs

cc: Andrew R. Simon, Esq. ✓  
File

#### CERTIFICATE OF POSTING ZONING DEPARTMENT OF BALTIMORE COUNTY Towson, Maryland

District 10th Date of Posting 10/5/88  
Posted for: Special Exception  
Petitioner: Raymond J. Marocco, et ux - 383.20' W of end of asphalt drive, 3780' SE of c/l of Shepherd Road, 10th Election District - 3rd Councilmanic District  
Location of property: 5252 Cherokee Ave. Alexandria, Va. 22185  
Location of Signs: Along Troyer Rd. on the south edge of the AT&T Right-of-Way  
Remarks: 150.43 per  
Posted by: Michael Date of return: 10/15/88  
Number of Signs: 1

#### CERTIFICATE OF PUBLICATION

TOWSON, MD, Oct. 13, 1988

THIS IS TO CERTIFY, that the annexed advertisement was published in THE JEFFERSONIAN, a weekly newspaper printed and published in Towson, Baltimore County, Md., appearing on Oct. 6, 1988

THE JEFFERSONIAN,

*2-ke*  
Publisher

NOTICE OF HEARING  
The Zoning Commissioner of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a public hearing on the proposed Special Exception in Room 106 of the County Office Building, located at 111 W. Chesapeake Avenue in Towson, Maryland at 9:00 a.m. on Tuesday, October 25, 1988 at 9:00 a.m.  
Petitioner: Raymond J. Marocco, et ux  
Contract Purchaser(s): American Telephone & Telegraph Company of Baltimore City  
Hearing Date: Tuesday, Oct. 25, 1988 at 9:00 a.m.  
Special Exception: The construction and use of a regenerator station, a small (12.75' x 26') prefabricated hut containing telecommunications cable lines, wires, and related equipment, together with adjoining cross drains.  
In the event that this Petition is granted, a hearing period must be observed within the thirty (30) day appeal period. The Zoning Commissioner will, however, entertain any request for a stay of the issuance of said permit during this period for good cause shown. Such request must be in writing and received in the office of the Zoning Commissioner on or before the date of the hearing and above or on or after the hearing.  
J. ROBERT HAINES  
Zoning Commissioner of Baltimore County  
9563 Oct. 6



RE: PETITION FOR SPECIAL EXCEPTION : BEFORE THE ZONING COMMISSIONER  
S/S Private Rd., 383.20' W of  
end of asphalt drive, 3780' SE : OF BALTIMORE COUNTY  
C/L Sheppard Rd., 10th Election  
Dist.; 3rd Councilmanic Dist. :  
RAYMOND J. MAROCCO, et ux, : Case No. 89-155-X  
Petitioner

# ENTRY OF APPEARANCE

Please enter the appearance of the People's Counsel in the above-captioned matter. Notices should be sent of any hearing dates or other proceedings in this matter and of the passage of any preliminary or final Order.

*Phyllis Cole Friedman*  
Phyllis Cole Friedman  
People's Counsel for Baltimore County

*Peter Max Zimmerman*  
Peter Max Zimmerman  
Deputy People's Counsel  
Room 304, County Office Building  
Towson, Maryland 21204  
494-2188

I HEREBY CERTIFY that on this 6th day of October, 1988, a copy of the foregoing Entry of Appearance was mailed to Andrew R. Simon, Esquire, 5th Flr., 110 N. Washington St., Rockville, MD 20850; and American Telephone & Telegraph Co. of Baltimore City, 3033 Chain Bridge Rd., Oakton, VA 22185.

*Peter Max Zimmerman*  
Peter Max Zimmerman

Baltimore County  
Zoning Commissioner  
Office of Planning & Zoning  
Towson, Maryland 21204  
494-3333

J. Robert Haines  
Zoning Commissioner

September 19, 1988

# NOTICE OF HEARING

The Zoning Commissioner of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County will hold a public hearing on the property identified herein in Room 106 of the County Office Building, located at 111 W. Chesapeake Avenue in Towson, Maryland as follows:

Petition for Special Exception  
CASE NUMBER: 89-155-X  
55 Private Road, 383.20' W of end of asphalt drive, 3780' SE c/l Sheppard Road  
10th Election District - 3rd Councilmanic  
Legal Owner(s): Raymond J. Marocco, et ux  
Contract Purchaser(s): American Telephone & Telegraph Company of Baltimore City  
HEARING SCHEDULED: TUESDAY, OCTOBER 25, 1988 at 9:00 a.m.

Special Exceptions: The construction and use of a regenerator station, a small (12.75' x 26') prefabricated hut containing telecommunications cable lines, wires and related equipment, together with adjoining cross drains.

In the event that this Petition is granted, a building permit may be issued within the thirty (30) day appeal period. The Zoning Commissioner will, however, entertain any request for a stay of the issuance of said permit during this period for good cause shown. Such request must be in writing and received in this office by the date of the hearing set above or presented at the hearing.

J. ROBERT HAINES  
Zoning Commissioner of  
Baltimore County

cc: Raymond J. Marocco, et ux  
John D. A. Hogan, III  
Andrew R. Simon, Esq.  
File

GREENBERG & SIMON  
ATTORNEYS AT LAW

FIFTH FLOOR  
110 N. WASHINGTON STREET  
ROCKVILLE, MARYLAND 20850

TELEPHONE (301) 251-4010  
FAX (301) 762-1284

IRVING GREENBERG  
ANDREW R. SIMON  
\*ADMITTED IN MARYLAND AND D.C.

August 5, 1988

J. Robert Haines  
Zoning Commissioner of Baltimore County  
111 W. Chesapeake Avenue, Room 109  
Towson, Maryland 21204

RE: Special Exception Petition  
American Telephone and Telegraph Co.  
of Baltimore City

Dear Mr. Commissioner:

This office represents American Telephone and Telegraph Company of Baltimore City, the above-referenced petitioner with regard to AT & T's petition for a special exception under zoning law and regulations. We are currently scheduled to meet with a representative of your office on August 17 to present our petition for review and preliminary approval.

We were unaware that after this initial meeting, we must wait three months before we have an opportunity to present our petition at a hearing. AT & T is requesting this special exception in order to construct and maintain a regenerator station concurrent with plans to lay new telecommunications fiber optic cable in this region. These plans have been underway for quite some time, and AT & T has invested substantial sums of time, manpower and money toward this project.

The regenerator station is to be placed on vacant land now owned by Raymond and Plo J. Marocco, as shown on tax map #23, parcel 82. It will measure 12.75 feet by 26 feet, and require minimal access. In sum, its impact on the environment and community will be barely existent.

We write to request an expedited hearing date, as we believe that if our documents filed in support of the petition are in order, the Commission, unlikely to receive objections from interested parties, will determine that the exception prayed will be appropriate. The benefit to AT & T and its many customers serviced by the planned network will be significant.

J. Robert Haines  
August 5, 1988  
Page 2 of 2

Accordingly, we ask that the normal waiting period by substantially shortened and that a hearing be scheduled as soon after our planned August 17 meeting as possible. Your attention to this request is appreciated.

Very truly yours,

*Andrew R. Simon*  
Andrew R. Simon

ARS/smp  
cc: Daniel Kennedy, AT & T Communications, Inc.

SMITH-MIDLAND COMPANY  
MIDLAND, VIRGINIA

AT&T COMMUNICATION TYPE III BUILDING  
12' X 25' BUILDING  
DESIGN CALCULATIONS

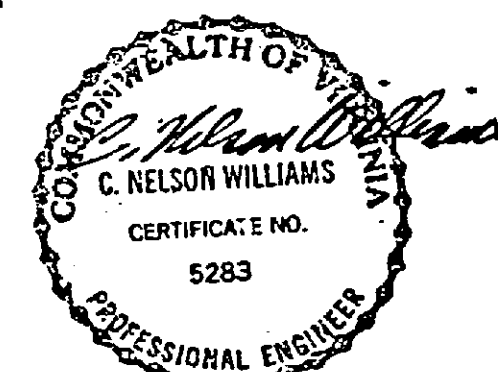
# SHEET

DESIGN CRITERIA  
ROOF SLAB  
WALLS  
FLOOR SLAB  
STABILITY  
CONNECTIONS  
ROOF SLAB REINFORCEMENT  
FLOOR SLAB REINFORCEMENT

1  
2  
4  
7  
8  
9  
11  
12

DUNBAR, MILEY AND WILLIAMS  
CONSULTING STRUCTURAL ENGINEERS  
611 MOOREFIELD PARK DRIVE, SUITE A  
RICHMOND, VIRGINIA 23236

PETITIONER'S  
EXHIBIT 3



AT&T COMMUNICATION TYPE III BLDG.  
12' X 25' BUILDING  
SMITH-MIDLAND

# MATERIAL

CONCRETE  $f_c' = 4000$  PSI WITH .80 LBS. OF  
STEEL FIBER PER CUBIC  
YARD

REINF. STEEL ASTM A615-60

PRESTRESSING  $1/2"$   $\phi$ , 270 KSI 3 R.S. BY P.I.C.  
STEEL

# LOADING

RCCF LOAD 20 PSF  
30  
40  
50  
60

BASIC WIND LOAD 27 PSF

# CODES

LOADS - AMERICAN NATIONAL STANDARD (ANS)  
"BUILDING CODE REQUIREMENTS FOR  
MINIMUM DESIGN LOADS IN BUILDINGS  
AND OTHER STRUCTURES."

DESIGN - AMERICAN CONCRETE INSTITUTE  
(ACI-318-83) "BUILDING CODE  
REQUIREMENTS FOR REINFORCED  
CONCRETE"

# SOLID ROOF SLAB

ANALYZE AS ONE WAY SLAB

$$M_u = \frac{W_u (12.33)^2}{8} = 19.00 W_u$$

$$d_A = 5 - 1/4 - 1/4 = 3.50"$$

$$W_u = 1.4(62.5) + 1.7(W_{LL})$$

MOMENT IN SLAB

# REINFORCING

WLL	WU	MU	A - SECTION
20	121.5	2309	#4 AT 15"
30	138.5	2634	#4 AT 12"
40	155.5	2959	#4 AT 12"
50	172.5	3278	#4 AT 10"
60	189.5	3601	#4 AT 8"

MOMENT CAPACITY OF 5" SLAB WITH VARIOUS  
REINFORCING

$$a = \frac{60 AS}{(85)(4)(12)} = 1.47 AS \quad M_u = 9(60) AS (350 - \frac{a}{2})$$

REINFORCING	AS	a	MU
#2 AT 12"	11	16	1693
#4 AT 15"	16	23	2488
#4 AT 12"	20	29	3018
#4 AT 10"	24	35	3589
#4 AT 8"	30	44	4427

AT&T COMMUNICATION TYPE III BLDG.  
12' X 25'  
SMITH-MIDLAND

# WEIGHT OF ROOF SLAB

$$WT = 13.16 (26.16)(62.5) = 21,517 \text{ LBS.}$$

# MINIMUM REINFORCING

$$A_s \text{ MIN} = .0018 \times 5 \times 12 = .108 \text{ IN}^2/\text{FT.} - \#3 \text{ AT } 12"$$

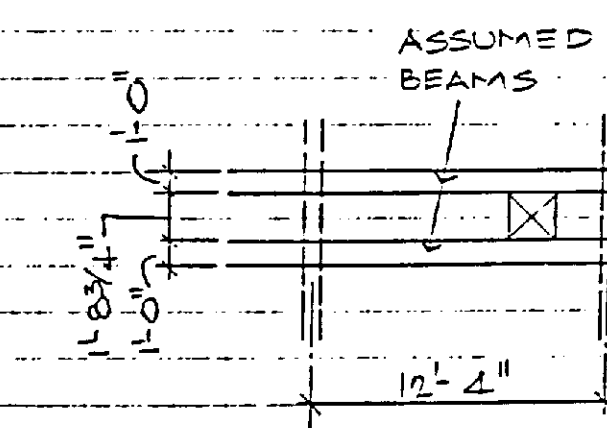
ADDED REINFORCING AT ROOF OPENING  
FOR 60 PSF. LL

$$W_u = 189.5 \text{ PSF} \times (10 + \frac{1.73}{2}) = 353 \text{ PLF}$$

$$M_u = 353 (12.33)^2 / 8 = 6715$$

$$\frac{M_u}{\phi b d^2} = \frac{6715 (12)}{.7 (12) (3.5)^2} = 609$$

$$A_s = (.0110) (12) (3.5) = .46$$



ADD (3) #4'S EACH  
SIDE OF OPENING



AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### WALLS

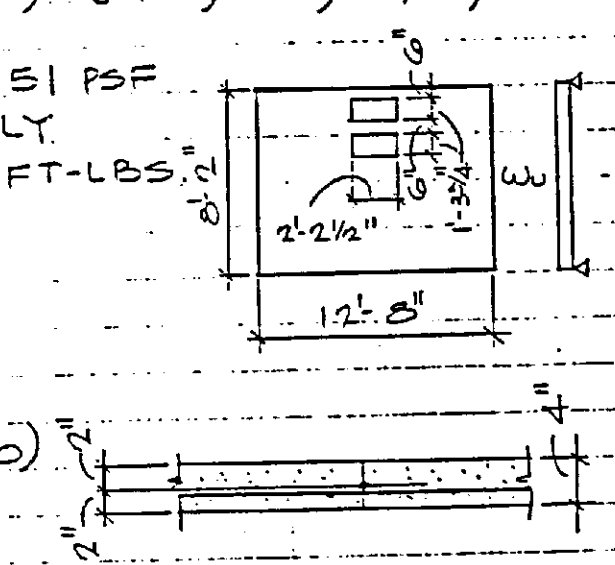
ANALYZE AS VERTICAL BEAMS RESISTING  
WIND LOAD.  
 $W = 27$  PSF BASIC WIND PRESSURE  
MAX. INTERNAL OR EXTERNAL  
FORCE ON WALL =  $1.5W = 1.5(27) = 40$  PSF

#### REAR WALL

$WT = (12.67)(8.16)(4/12)(150) - (2.21)(1.31)(4/12)(150)2$   
 $= 4880$  LBS.  
 $WU = 40$  PSF  $\times 1.7 \times 7.5 = 51$  PSF  
WALL SPANNING VERTICALLY  
 $MU = (51)(8.16)^2/8 = 424$  FT-LBS.

#### MINIMUM WALL REINF.

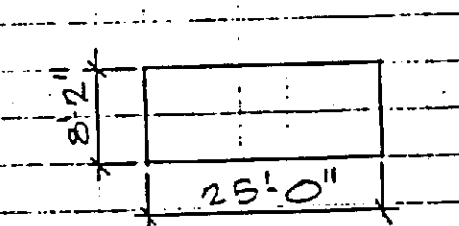
(HORIZ.)  $AS = .002(12)(400)$   
 $= .096$   
#3 AT 12"  
(VERTICAL)  $AS = .0012(12)(400)$   
 $= .058$   
#3 AT 12"



$a = \frac{11(60)}{85(4)(12)} = .16$   
 $MU = .9(11)(60)(\frac{400}{2} - \frac{16}{2})/12 = 950$  FT-LBS

#### SIDE WALL

$WT = (25.00)(8.16)(4/12)(150)$   
 $= 10200$  LBS.  
 $WU = 51$  PSF  
 $MU = 51(8.16)^2/8 = 424$  FT-LBS.



USE MIN. REINF.

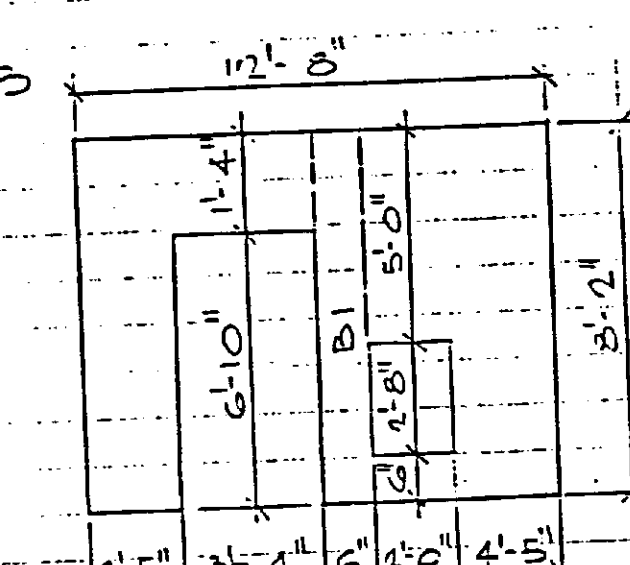
USE #3'S AT 12"  
HORIZ. & VERT.

AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### FRONT WALL

$WT = (12.67)(8.16)(4/12)(150) - [(3.33)(6.83) + (2)(2.67)]$   
 $- (4/12)(150) =$   
 $= 3765$  LBS.

BEAM B1  
 $WU = 51(3.17) = 161$  PLF  
 $MU = 161(8.16)/8 = 1343$



CAPACITY OF VERTICAL BEAM IN WALL WITH (1) #4

$AS = .20$  IN<sup>2</sup>  $a = \frac{60(10)}{85(4)(6)} = .59$   
 $b_{MIN} = 6"$   
 $d_{MIN} = 2'$   
 $MU = .9(60)(20)(2.0 - .59/2)/12 = 1534$  FT-LBS.  
USE MINIMUM  
(1) #4 IN BEAM

#### TYPICAL WALL

$WU = 51$  PSF,  $MU = 51(8.16)/8 = 424$  FT-LBS.

MINIMUM REINFORCING

AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### BEAM OVER DOOR

$WU_{BM} = WU(.58 + \frac{2}{3}) + 1.4(4)(16)(150/144)$   
 $= 358WU + 93$

FOR L.L. = 60 PSF  $WU = 189.5$  PLF

$WU_{BM} = 358(189.5) + 93 = 772$  PLF

#### MOMENT IN BEAM

$MU = 772(4)/8 = 1543$  FT-LBS.

#### MOMENT CAPACITY OF BEAM WITH (1) #3

$a = \frac{11(60)}{85(4)(4)} = .49$   $b = 4$ ,  $d = 16$ ,  $G = 10.0$

$MU = .9(60)(11)(10 - \frac{.49}{2})/12 = 4829$  FT-LBS.

BEAM OVER  
DOOR IS OK

AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### FLOOR (5" THICK)

#### DEAD LOAD SUPPORTED ON SLAB

ROOF  $215(7)(1.4)/25.67 \times 12.67 = 92$  PSF  
REAR WALL  $4880(1.4)/25.67 \times 12.67 = 21$  PSF  
SIDE WALLS  $2(10200)(1.4)/25.67 \times 12.67 = 26$  PSF  
FRONT WALL  $3765(1.4)/25.67 \times 12.67 = 16$  PSF  
 $= 217$  PSF (ULTIMATE)

#### ASSUME UNIFORM BEARING UNDER

#### ENTIRE SLAB

#### ANALYZE AS ONE WAY SLAB

$WU = 217 + 1.7WLL$

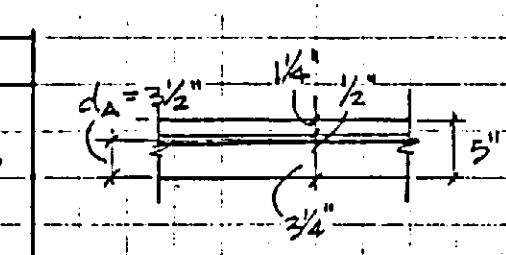
#### MOMENT IN SLAB

WLL	WU	MU*	A- SHEET DIRECTION
20	251	4770	#4 AT 7"
30	268	5093	#4 AT 6"
40	285	5416	#4 AT 6"
50	302	5739	#4 AT 6"
60	319	6062	#4 AT 5"

#### MOMENT CAPACITY OF 5" SLAB WITH VARIOUS REINF.

$a = \frac{60AS}{85(4)(12)} = 1.47AS$   $MU* = .9(60)AS(3.50 - \frac{a}{2})/12$

REINF.	AS	a	MU*
#4 AT 8"	.30	.44	4427
#4 AT 7"	.34	.50	4963
#4 AT 6"	.40	.58	5770
#4 AT 5"	.48	.70	6790



AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

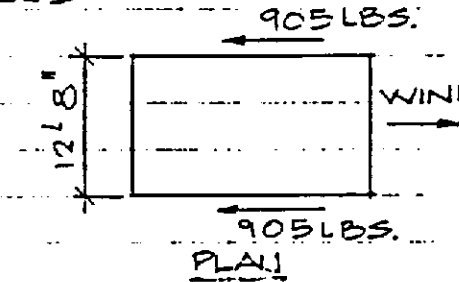
#### OVERALL STABILITY

#### WIND LOAD

$W = 27$  PSF  $(.8 + .5)(8.16/2) = 143$  PLF

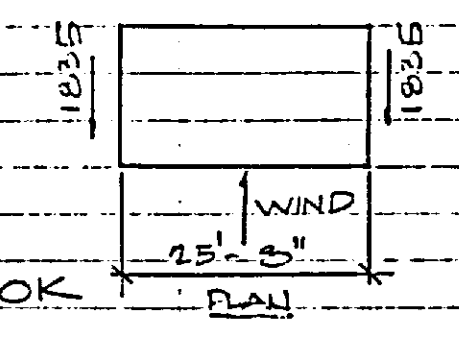
#### WIND ON FRONT & REAR WALLS

$V = 143 \times 12.67/2 = 905$   
 $MOT = 905 \times 8.16 = 7385$   
 $MRES = 10200 \times 12.5 = 127500$   
 $S.F. = \frac{127500}{7385} = 17.3$  OK

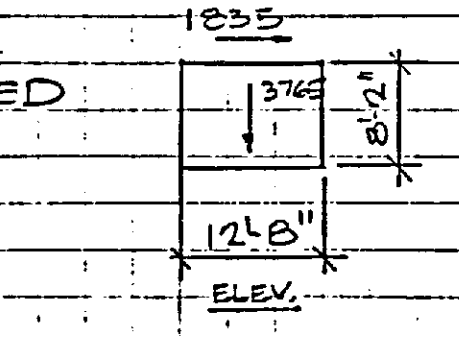


#### WIND ON SIDE WALLS

$V = 143 \times 25.67/2 = 1835$   
 $MOT = 1835 \times 8.16 = 14977$   
 $MRES = 3765 \times 6.55 = 24832$   
 $S.F. = \frac{24832}{14977} = 1.65$  OK



THIS IS VERY CONS. BECAUSE  
WT OF ROOF IS NEGLECTED



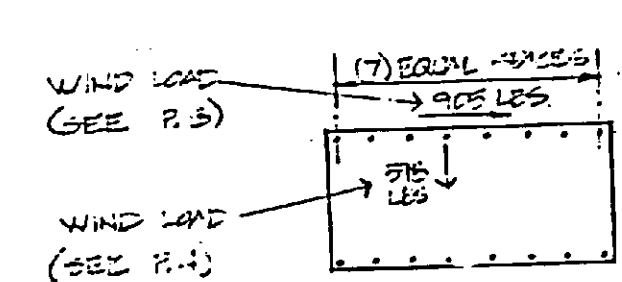
AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### CONNECTION DESIGN

1/2" X 1 1/4" EMBEDDED LOOP INSERTS  
(SUPERIOR 1/2" COIL THREAD WITHOUT "FLO")  
(3) ON LONG. SIDE, (3) ON SHORT. SIDE

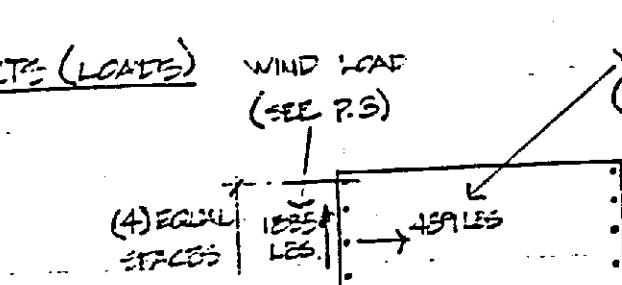
#### SIDE INSERTS (LOADS)

$\frac{905}{5} = 181$   
 $163$  PLF (3) = 515\*



#### FRONT AND REAR INSERTS (LOADS)

$\frac{14977}{5} = 2995$   
 $163$  PLF (3) = 489\*



THE WIND BLOWING PERPENDICULAR TO THE WALLS  
IS CRITICAL. THEREFORE, THE DESIGN OF THE SIDE  
INSERTS CONTROLS.

INSERT (TENSION CAPACITY) "PCI DESIGN HANDBOOK, SEE ED, CHAP. 6"  
 $4 \times 1.0 \times 1.75 \times 1.0 \times 1.0 \times 4000$  PSI  
 $P_2 = \pi(L + \frac{1}{4})^2(2.8 \times 2)\sqrt{f'_c} = \pi(2.58^2)(2.8)(1)\sqrt{4000} = 2816$  (EQ. 6.5.2)  
 $P_2 = 12.6(1.6)(2.8)(2)\sqrt{f'_c} = 12.6(1.78)(2.78)(1)\sqrt{4000} = 3531$  (EQ. 6.5.2.4)

$P_2 = \frac{4P_1}{3} = \frac{511}{3} = 170$  (DEVELOPMENT OF BARS)  
 $P_2 = \frac{511}{3} = 170$

USE S.F. = 4.0 AND A 1/3 INCREASE FOR WIND.

$P_{ALLOW} = \frac{2816(1.33)(2.0)}{4} = (318)(.78) = 730$

CORRECTION FACTOR  $\frac{1.75}{2.25} = .78$

AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

#### CONNECTION DESIGN (CONT.)

INSERT (SHEAR CAPACITY) "PCI DESIGN HANDBOOK, SEE ED, CHAP. 6"  
 $A_b = 1.56$  IN<sup>2</sup>,  $L_d = 5.75'$   
 $V_L = (600)(A_b)(2)\sqrt{f'_c} = 600(1.56)(2)\sqrt{4000} = 7916$  (EQ. 6.5.6)  
 $V_L = (2)(\pi)(1.6)(2)(2)\sqrt{f'_c} = (2)(\pi)(5.75)(1)\sqrt{4000} = 13159$  (EQ. 6.5.7)

$V_L = 8100$

S.F. = 4.0 AND A 1/3 INCREASE FOR WIND

$V_{ALLOW} = \frac{8100(1.33)}{4} = 2700$

COMBINED STRESSES (WIND TO ALLOW)  
WORKING LOADS ARE USED FOR BOTH CONCRETE AND STEEL.  
 $\left(\frac{P_{WIND}}{P_{ALLOW}}\right)^2 + \left(\frac{V_{WIND}}{V_{ALLOW}}\right)^2 = \left(\frac{5985}{730}\right)^2 + \left(\frac{113}{2700}\right)^2 = .65 \leq 1.0$  OK

COMBINED STRESSES (WIND TO FLOOR OR ROOF)  
 $\sqrt{(P_{WIND})^2 + (V_{WIND})^2} = \sqrt{(5985)^2 + (113)^2} = 6111 \leq 7300$  OK

ANGLE CAPACITY  
TRY  $L \times 3 \times 1/2 \times 1/2 \times 3'$   
COMBINED BENDING

$F_{EOL} = \sqrt{(F_t)^2 + (F_v)^2}$

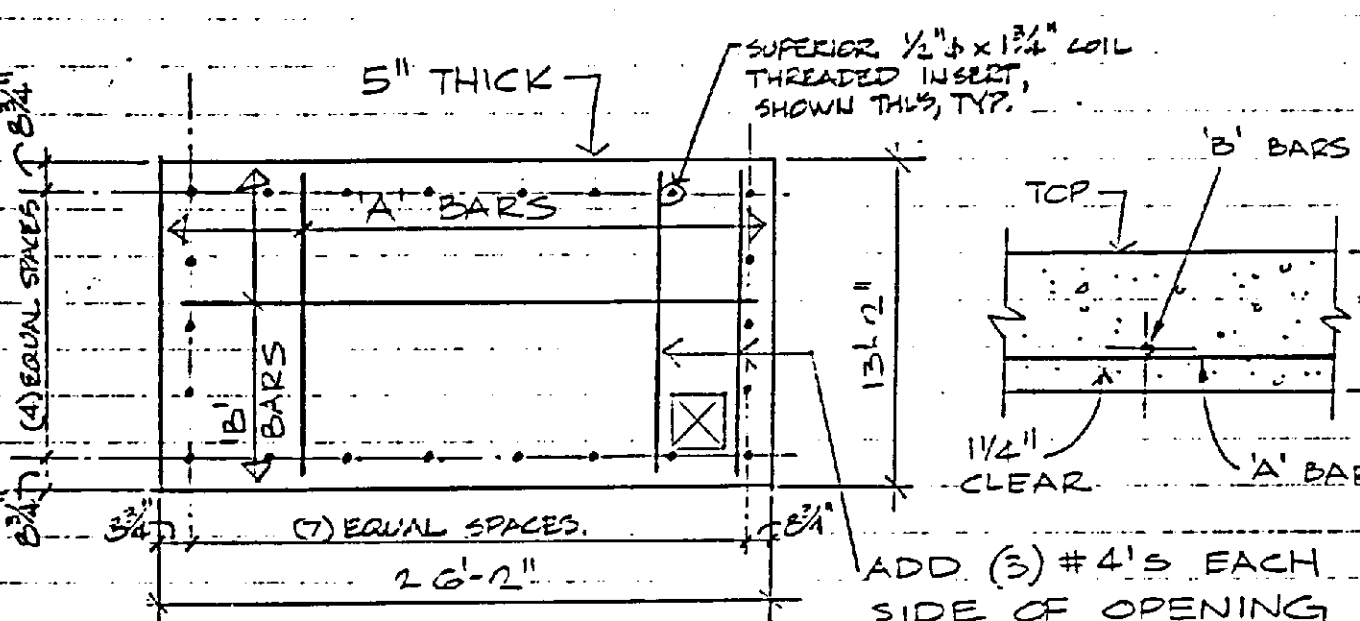
$F_t = \frac{1}{5} = \frac{113(1.5)}{5} = 452$  PSI

$F_v$  (PCI DESIGN HANDBOOK) =  $\frac{4(516)(1.75)}{(1.5)^2(3)} = 22325$  PSI

$F_{EOL} = \sqrt{(452)^2 + (22325)^2} = 22330$  PSI  $\leq 27,000$  PSI OK

AT&T COMMUNICATION TYPE III BLDG.  
12 X 25 BUILDING  
SMITH MIDLAND

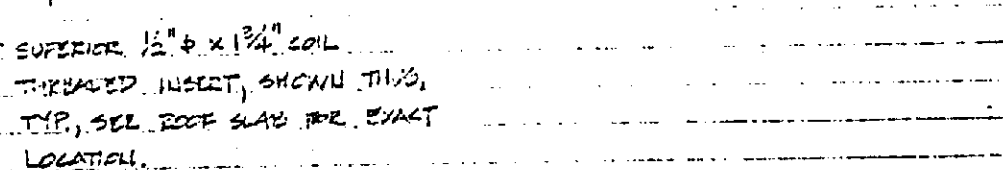
#### REINFORCING DETAILS FOR SOLID ROOF SLAB



LIVE LOAD	A BARS	B BARS
20 PSF	#4 AT 15"	#3 AT 12"
30 PSF	#4 AT 12"	#3 AT 12"
40 PSF	#4 AT 12"	#3 AT 12"
50 PSF	#4 AT 10"	#3 AT 12"
60 PSF	#4 AT 8"	#3 AT 12"

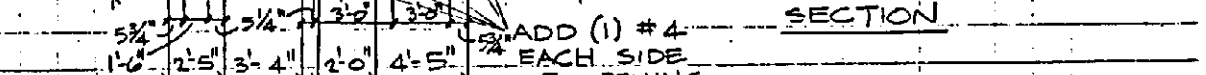
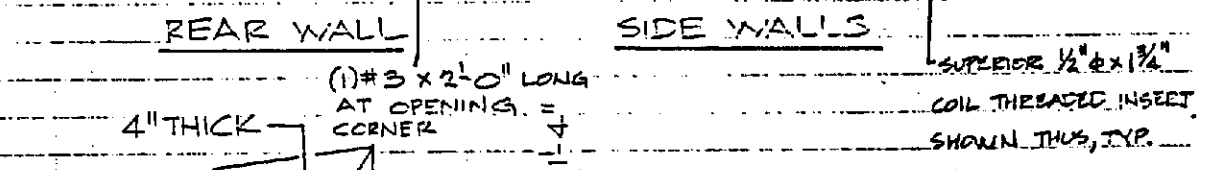


REINFORCING DETAILS FOR SOLID FLOOR SLAB

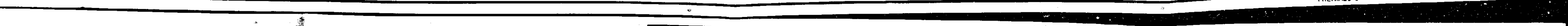


1. **Nome e Cognome:** \_\_\_\_\_  
 2. **Indirizzo:** \_\_\_\_\_  
 3. **Città:** \_\_\_\_\_  
 4. **Prov.:** \_\_\_\_\_  
 5. **Cap.:** \_\_\_\_\_  
 6. **Telefono:** \_\_\_\_\_  
 7. **E-mail:** \_\_\_\_\_  
 8. **Professione:** \_\_\_\_\_  
 9. **Stato:** \_\_\_\_\_  
 10. **Altre informazioni:** \_\_\_\_\_

## WALL REINFORCING DETAILS



430 SOUTH MOORE ROAD  
 SEASIDE, IN 46515  
 AT&T  
 Eastern Area Office  
 1 of 2





89-155-X  
BALTIMORE COUNTY OFFICE OF PLANNING & ZONING  
County Office Building  
111 W. Chesapeake Avenue  
Towson, Maryland 21204  
Your petition has been received and accepted for filing this  
7th day of September, 1988.  
J. Robert Haines  
Zoning Commissioner  
Petitioner Raymond J. Marocco, et ux  
Attorney Andrew R. Simon

Baltimore County  
Fire Department  
Townson, Maryland 21204-2586  
494-4500  
September 12, 1988  
Paul H. Reinke  
Chief  
J. Robert Haines  
Zoning Commissioner  
Office of Planning and Zoning  
Baltimore County Office Building  
TOWSON, MD 21204  
Re: Property Owner: Contract Purchaser - American Telephone & Telegraph Co. of Balto. City/Legal Owner - Raymond J. Marocco, et ux  
Location: SS Private Rd., 383.20' W. of end of Asphalt Dr. Center point of Troyer Rd., 3,780' SE of c/l of Shepherd Rd.  
Item No.: 69 Zoning Agenda: Meeting of 9/6/88  
Gentlemen:  
Pursuant to your request, the referenced property has been surveyed by this Bureau and the comments below marked with an "X" are applicable and required to be corrected or incorporated into the final plans for the property.  
( ) 1. Fire hydrants for the referenced property are required and shall be located at intervals or feet along an approved road in accordance with Baltimore County Standards as published by the Department of Public Works.  
( ) 2. A second means of vehicle access is required for the site.  
( ) 3. The vehicle dead end condition shown at EXCEEDS the maximum allowed by the Fire Department.  
( ) 4. The site shall be made to comply with all applicable parts of the Fire Prevention Code prior to occupancy or beginning of operation.  
(X) 5. The buildings and structures existing or proposed on the site shall comply with all applicable requirements of the National Fire Protection Association Standard No. 101 "Life Safety Code," 1976 edition prior to occupancy.  
( ) 6. Site plans are approved, as drawn.  
( ) 7. The Fire Prevention Bureau has no comments at this time.  
REVIEWER: [Signature] Noted and Approved: [Signature]  
Planning Group Fire Prevention Bureau  
Special Inspection Division  
/31

Baltimore County  
Department of Public Works  
Bureau of Traffic Engineering  
Courts Building, Suite 405  
Towson, Maryland 21204  
494-3354  
October 11, 1988  
Mr. J. Robert Haines  
Zoning Commissioner  
County Office Building  
Towson, MD 21204  
RECEIVED ZONING OFFICE  
DATE: 10/14/88  
Dear Mr. Haines:  
The Bureau of Traffic Engineering has no comments for items number 69, 75, 76, 77, 78, 79, 81, 82, 83, 84, & 85.  
Very truly yours,  
[Signature]  
Michael S. Flanigan  
Traffic Engineer Associate II  
MSF:lab

BALTIMORE COUNTY ZONING PLANS ADVISORY COMMITTEE  
October 18, 1988  
COUNTY OFFICE BLDG.  
111 W. Chesapeake Ave.  
Towson, Maryland 21204  
MEMBERS  
Bureau of Engineering  
Department of Traffic Engineering  
State Roads Commission  
Bureau of Fire Prevention  
Health Department  
Project Planning  
Building Department  
Board of Education  
Zoning Administration  
Industrial Development  
Andrew R. Simon, Esquire  
5th Floor  
110 North Washington Street  
Rockville, Maryland 20850  
RE: Item No. 69 - Case No. 89-155-X  
Petitioner: Raymond J. Marocco, et ux  
Contract Purchaser: American Telephone and Telegraph Company of Baltimore City  
Petition for Special Exception  
Dear Mr. Simon:  
The Zoning Plans Advisory Committee has reviewed the plans submitted with the above referenced petition. The following comments are not intended to indicate the appropriateness of the zoning action requested, but to assure that all parties are made aware of plans or problems with regard to the development plans that may have a bearing on this case. The Director of Planning may file a written report with the Zoning Commissioner with recommendations as to the suitability of the requested zoning.  
Enclosed are all comments submitted from the members of the Committee at this time that offer or request information on your petition. If similar comments from the remaining members are received, I will forward them to you. Otherwise, any comment that is not informative will be placed in the hearing file. This petition was accepted for filing on the date of the enclosed filing certificate and a hearing scheduled accordingly.  
Very truly yours,  
[Signature]  
JAMES E. DYER  
Chairman  
Zoning Plans Advisory Committee  
JED:dt  
cc: Charles I. Homan, P.E.  
Michael Baker, Jr., Inc.  
4301 Dutch Ridge Road  
Beaver, Pennsylvania 15009

BALTIMORE COUNTY, MARYLAND  
INTER-OFFICE CORRESPONDENCE  
J. Robert Haines  
TO: Zoning Commissioner  
Pat Keller, Deputy Director  
FROM: Office of Planning and Zoning  
ATAT  
SUBJECT: Zoning Petition No. 89-155-X  
Date: October 24, 1988  
The applicant is requesting special exception approval to construct a telecommunications regenerator station. In reference to this request, staff provides the following information:  
• The applicant will be constructing a pre-fabricated building approximately 12.75 feet by 26 feet in size. The elevations for the building should be approved by the Office of Planning and Zoning prior to the issuance of building permits.  
• It is not clear if security fencing will be provided, if any noise will be generated by the facility or if any landscaping is being proposed. The applicant should review the issues of fencing and noise with the Office of Planning and Zoning, as well as work out an acceptable landscape plan for screening the building with the Landscape Planner prior to the issuance of building permits.  
Based upon the analysis conducted and information provided, staff recommends approval of the applicant's request subject to the concerns noted above.  
PK/sf  
RECEIVED ZONING OFFICE  
DATE: 10/24/88

PLEASE PRINT CLEARLY  
PETITIONER(S) SIGN-IN SHEET  
NAME ADDRESS  
D.B. KENNEDY 3033 Shawnee Blvd. Rd. #14340  
Andrew R. Simon OAKTON VA 22185

PETITIONER(S) EXHIBIT (2)  
A  
base on which building set  
B

PETITIONER(S) EXHIBIT (3)  
C  
[Photograph of a building and a truck]